## What is claimed is:

1. An aqueous dispersion of polymer particles comprising, polymer particles having one or more stages, said polymer particles comprising:

(i) from 10% to 100% by weight of a first stage polymer containing at least one pendant ethylenically unsaturated side chain,

wherein said pendant ethylenically unsaturated side chain has been formed by the reaction of at least one co-reactive olefinic material with at least one epoxy group on a precursor polymer;

- (ii) from 0% to 20% by weight of a second stage polymer comprising from 2% to 50% by weight of a copolymerized monomer having carboxylic acid functionality; and
- (iii) from 0% to 70% by weight of a third stage polymer, said third stage polymer having no epoxy functionality, and less than 2% by weight of a copolymerized monomer having carboxylic acid functionality.

2. The aqueous dispersion according to claim 1, wherein third stage polymer further comprises from 0.1 to 10 mole percent of a copolymerized multiethylenically unsaturated monomer.

- 20 3. The aqueous dispersion according to claim 1, wherein said aqueous dispersion further comprises a multifunctional primary or secondary amine.
  - 4. The method of claim 1 wherein said aqueous dispersion further comprises a strong base catalyst.

5. The aqueous dispersion according to claim 1, containing a metal ion catalyst.

- 6. The aqueous dispersion according to claim 1, wherein said aqueous dispersion further comprises an amide or an ester of a nonvolatile olefinic compound.
- 7. The aqueous dispersion according to claim 1, wherein said aqueous dispersion contains up to 5% by weight of a volatile organic compound.

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- 8. A method of preparing an ambient curable aqueous dispersion of polymer particles, said method comprising the steps of:
  - (i) preparing polymer particles having one or more stages, by:
    - (a) preparing a first stage polymer containing at least one epoxy group and at least one pendant ethylenically unsaturated side chain by:
      - (I) preparing a precursor polymer containing at least one epoxy group by the free radical addition polymerization of at least one ethylenically unsaturated monomer, and then
      - (II) forming at least one pendant ethylenically unsaturated side chain on said precursor polymer by reacting said at least one epoxy group on said precursor polymer with at least one co-reactive olefinic material;
    - (b) optionally preparing a second stage polymer comprising from 2% to 50% by weight of a copolymerized monomer having carboxylic acid functionality; and
    - (c) optionally preparing a third stage polymer, said third stage polymer having no epoxy functionality, and less than 2% by weight of a copolymerized monomer having carboxylic acid functionality
- 9. The method of claim 8 wherein a strong base catalyst is used during the preparation of said aqueous emulsion dispersion.
- 10. A method of ambient curing a coating composition on a substrate, comprising the steps of
  - (a) forming a coating composition comprising an ambient curable aqueous dispersion of polymer particles having one or more stages comprising:
    - (i) from 10% to 100% by weight of a first stage polymer containing at least one pendant ethylenically unsaturated side chain,
      - wherein said pendant ethylenically unsaturated side chain has been formed by the reaction of at least one co-reactive olefinic material with at least one epoxy group on a precursor polymer;
    - (ii) from 0% to 20% by weight of a second stage polymer comprising from 2% to 50% by weight of a copolymerized monomer having carboxylic acid functionality; and
    - (iii) from 0% to 70% by weight of a third stage polymer, said third stage polymer having no epoxy functionality, and less than 2% by weight of a copolymerized monomer having carboxylic acid functionality; and

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- (b) applying said coating composition to a substrate; and
- (c) drying, or allowing to dry said coating composition; and
- (d) allowing said dried composition to react in the presence of oxygen.

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